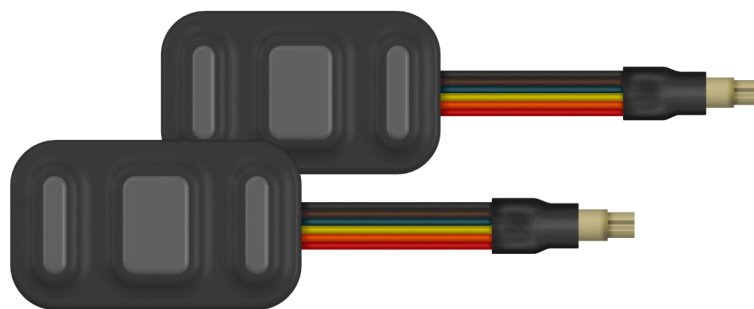


Overview

The Element system is the lowest-profile suction electrode system available on the market today. The system includes two IBT Electrodes, a Bluetooth®-enabled digital signal processing box, Element desktop software, two electrode dummies, and a USB Bluetooth adapter.



IBT Electrodes



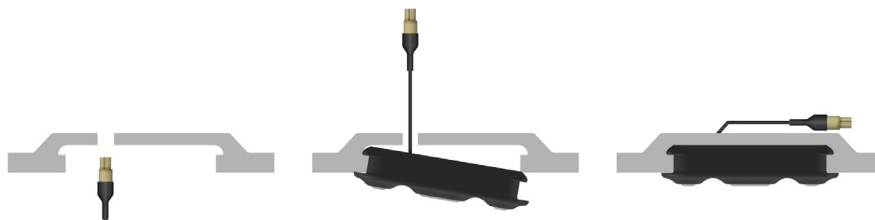
Signal Processing Box

Features

- 1. Small form-factor:** With a height of 6.7 mm, the IBT electrodes are the thinnest cased electrodes on the market. The low profile shape allows prosthetists to build form-fitting frames.
- 2. Suction socket compatible:** An innovative snap-in design allows for the IBT electrodes to be pushed into the socket to form a suction seal and secure the socket tightly onto the limb.
- 3. Industry-leading noise rejection:** Through digital signal processing, Element also has industry-leading interference noise rejection to help users feel confident in using their myoelectric prosthesis anywhere.
- 4. Wireless gain adjustment:** The Element system is Bluetooth®-enabled for wireless gain adjustment through companion Element desktop software. There's no need to leave any unsightly holes in the frame and socket to leave access to a manual gain adjustment. Additionally, Element can be used as an affordable myotester.
- 5. Easy fabrication and installation:** Simple electrode dummies help form a sealed pocket for the IBT electrode within a socket. With the pocket formed, IBT electrodes can be snapped right into the socket.
- 6. Durable electrode cables:** As of 2021, IBT released updated cables that are even more durable and lie flatter, reducing the need for space between the inner and outer socket.
- 7. Advanced signal processing:** Through the companion software, the electrode signals can be fine tuned in two different ways, in addition to the gain. One parameter available is the adjustment of the smoothness of the signal. Higher smoothness lets users achieve a more stable amplitude, which is best for really precise proportional control. The second parameter is sensitivity, which can be used to help users with really low signals maximize their signal range.



Element desktop software



Snapping an IBT Electrode into a Socket

Compatibility

Output compatibility: Element is compatible with most hands, wrists, and elbows that accept standard analog EMG electrode inputs. The Element system is typically sold with two three-port kidney-style output connectors and a single two-port power connector. Alternative connectors may be available upon request.

Power compatibility: Element is compatible with the FlexCell power system.